

Docket No.: 50277-2390

REMARKS/ARGUMENTS

## I. SPECIFICATION

In the specification, the paragraph [0028] has been amended to correct minor editorial problems. The error in the corrected sentence would have been obvious to one of ordinary skill in the art that an application process would not directly write to L1 cache. The Examiner is thanked for his thorough comments as well as his supporting comments.

## II. STATUS OF CLAIMS

Claims 1-42 remain in this application. Claims 1, 3, 4, 6-14, 16, and 18-21 have been amended.

## III. CLAIM REJECTIONS – 35 U.S.C. § 112

The Office Action rejected Claim 1 under 35 U.S.C. § 112, first paragraph. Applicant has amended Claims 1, 3, 4, 6-14, 16, and 18-21 to reflect that the buffer map table in main memory is allocated and corresponds to cache memory.

Therefore, Claim 1 and dependent Claims 2-42 are enabled by the specification to enable one of ordinary skill in the art to which it pertains, or with which it is most nearly connected, to implement the invention commensurate in scope with the Claims without likely undue experimentation. Applicant respectfully requests that the Examiner withdraw the rejection under 35 U.S.C. § 112, first paragraph.

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## IV. CLAIM REJECTIONS – 35 U.S.C. § 102/103(a)

The Office Action rejected Claims 1-42 under 35 U.S.C. § 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Mellender et al. (4,989,132). The rejection is respectfully traversed.

Claim 1 has been amended to clarify the claimed invention and appears as follows:

1. A method for managing memory used for query execution, the method comprising the computer-implemented steps of:  
allocating a buffer map table with locations that correspond to a buffer pool in a cache memory;  
wherein the cache memory is managed by a cache memory manager;  
wherein the buffer map table is managed by a buffer pool manager that is distinct from said cache memory manager;  
wherein the buffer pool includes a plurality of buffers;  
in response to a need to allocate space in said cache memory for a query working set of a query, the buffer pool manager allocating a buffer from the buffer map table that corresponds to a buffer in the buffer pool to the query working set.

In particular, Mellender does not teach or disclose a system allocating a buffer map table with locations that correspond to a buffer pool in a cache memory as claimed in Claim 1. Mellender makes no mention of allocating a buffer map table and further makes no mention of allocating a buffer map table with locations that correspond to a buffer pool in a cache memory. Therefore, Mellender does not contemplate such a system.

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Mellender additionally does not teach or disclose a system wherein the buffer map table is managed by a buffer pool manager that is distinct from said cache memory manager as claimed in Claim 1. Mellender makes no mention of such a feature. Therefore, Mellender does not contemplate such a system.

Mellender further does not teach or disclose a system that in response to a need to allocate space in said cache memory for a query working set of a query, the buffer pool manager allocating a buffer from the buffer map table that corresponds to a buffer in the buffer pool to the query working set as claimed in Claim 1. Mellender makes no mention of such a feature. Therefore, Mellender does not contemplate such a system.

Anticipation under 35 U.S.C. § 102 requires a reference to teach or disclose each and every element, limitation, or step of a claim. Since Claim 1 includes at least one element not found in Mellender, the Mellender patent does not anticipate Claim 1 under 35 U.S.C. § 102. Reconsideration is respectfully requested.

Further, Mellender does not teach or disclose the invention as claimed.

Claim 1 is allowable. Claims 2-42 are dependent upon Claim 1 and are allowable. Applicant respectfully requests that the Examiner withdraw the rejection under 35 U.S.C. 102(b) or, in the alternative, under 35 U.S.C. 103(a).

#### V. MISCELLANEOUS

Applicant respectfully requests that a timely Notice of Allowance be issued in this case.

The Applicants believe that all issues raised in the Office Action have been addressed and that allowance of the pending claims is appropriate. Entry of the amendments herein and further examination on the merits are respectfully requested.

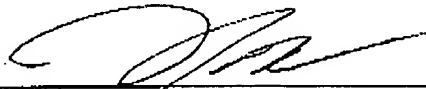
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The Examiner is invited to telephone the undersigned at (408) 414-1080 ext. 214 to discuss any issue that may advance prosecution.

No fee is believed to be due specifically in connection with this Reply. To the extent necessary, Applicants petition for an extension of time under 37 C.F.R. § 1.136. The Commissioner is authorized to charge any fee that may be due in connection with this Reply to our Deposit Account No. 50-1302.

Respectfully submitted,

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on May 17, 2006  
(Date)

by Annette Valdivia  
Annette Valdivia